0003803-030560

FIG.1

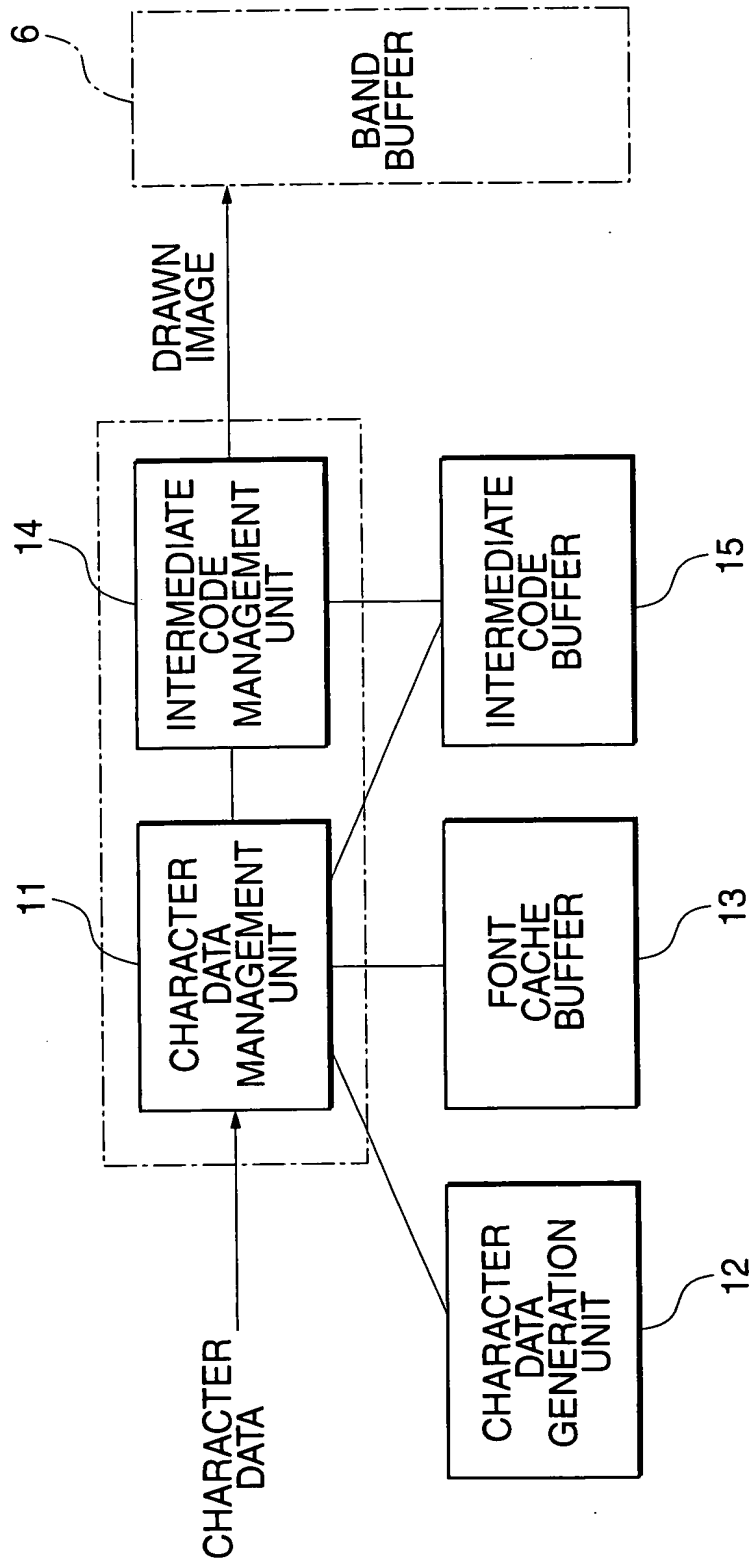


FIG.2

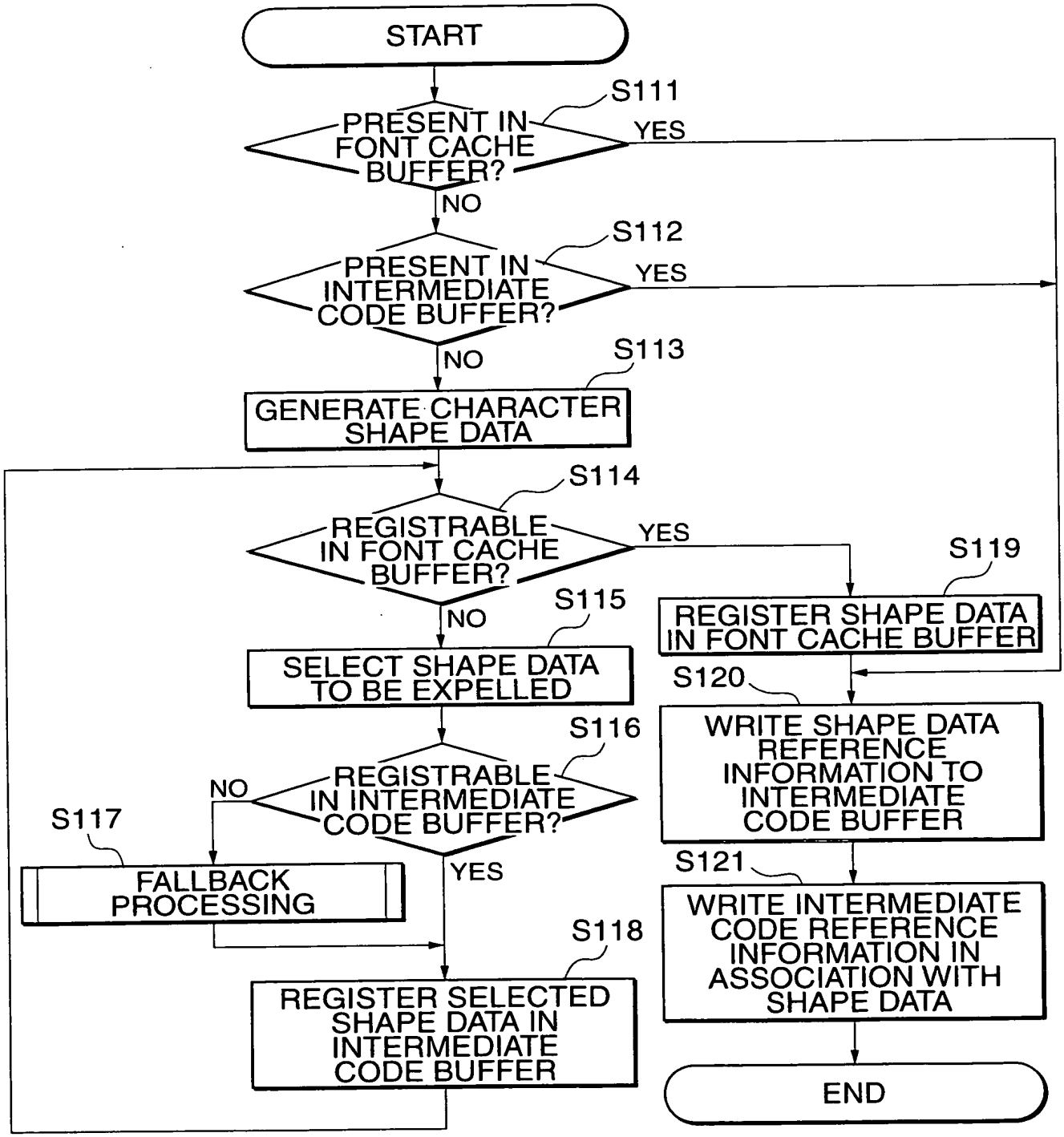

START
S111
PRESENT IN FONT CACHE BUFFER?
YES
NO
S112
PRESENT IN INTERMEDIATE CODE BUFFER?
YES
NO
S113
GENERATE CHARACTER SHAPE DATA
S114
REGISTRABLE IN FONT CACHE BUFFER?
YES
NO
S115
SELECT SHAPE DATA TO BE EXPELLED
S116
REGISTRABLE IN INTERMEDIATE CODE BUFFER?
NO
YES
S117
FALLBACK PROCESSING
S118
REGISTER SELECTED SHAPE DATA IN INTERMEDIATE CODE BUFFER
S119
REGISTER SHAPE DATA IN FONT CACHE BUFFER
S120
WRITE SHAPE DATA REFERENCE INFORMATION TO INTERMEDIATE CODE BUFFER
S121
WRITE INTERMEDIATE CODE REFERENCE INFORMATION IN ASSOCIATION WITH SHAPE DATA
END

FIG.3

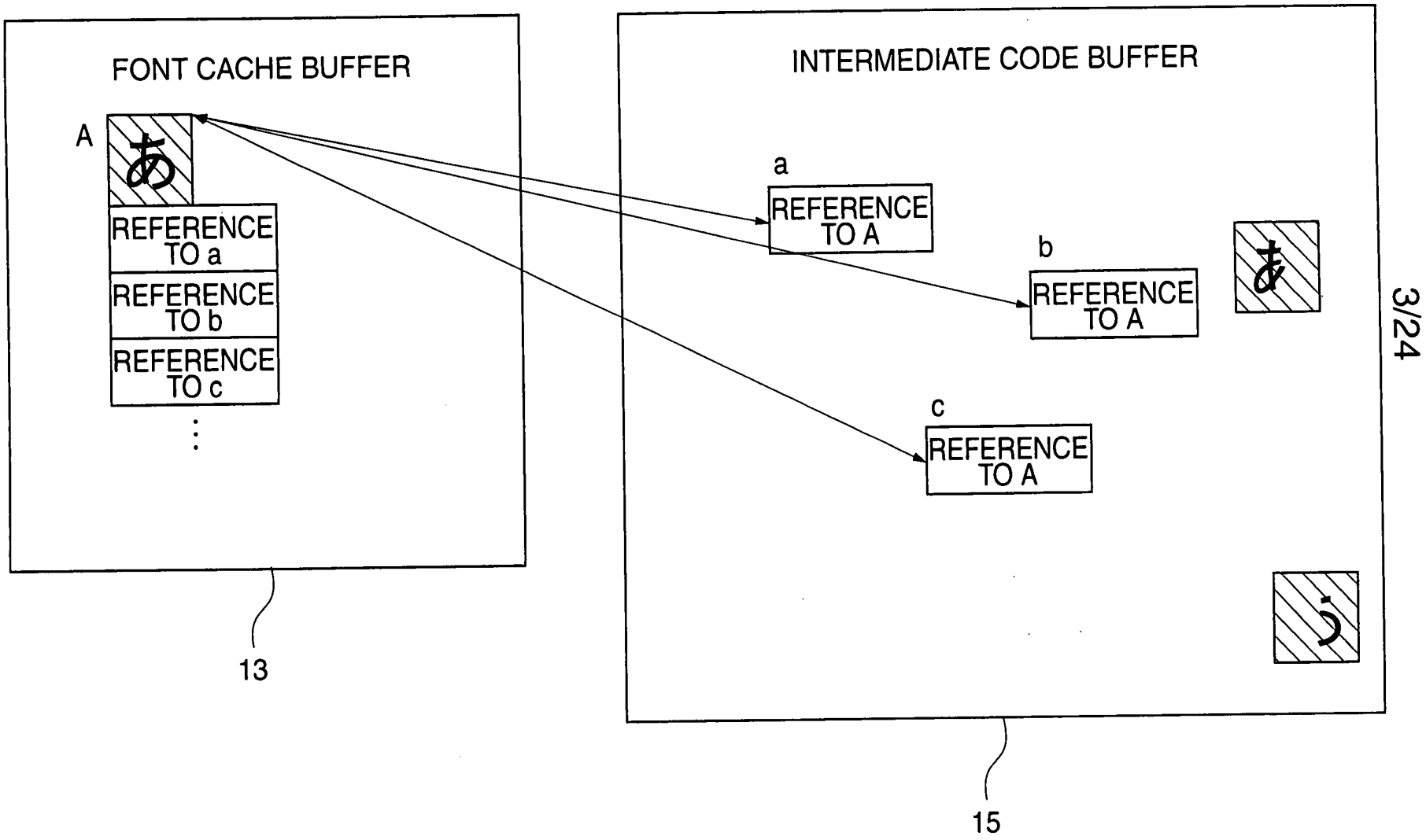

FONT CACHE BUFFER
A
REFERENCE TO a
REFERENCE TO b
REFERENCE TO c
13
INTERMEDIATE CODE BUFFER
a
REFERENCE TO A
b
REFERENCE TO A
c
REFERENCE TO A
15

FIG.4

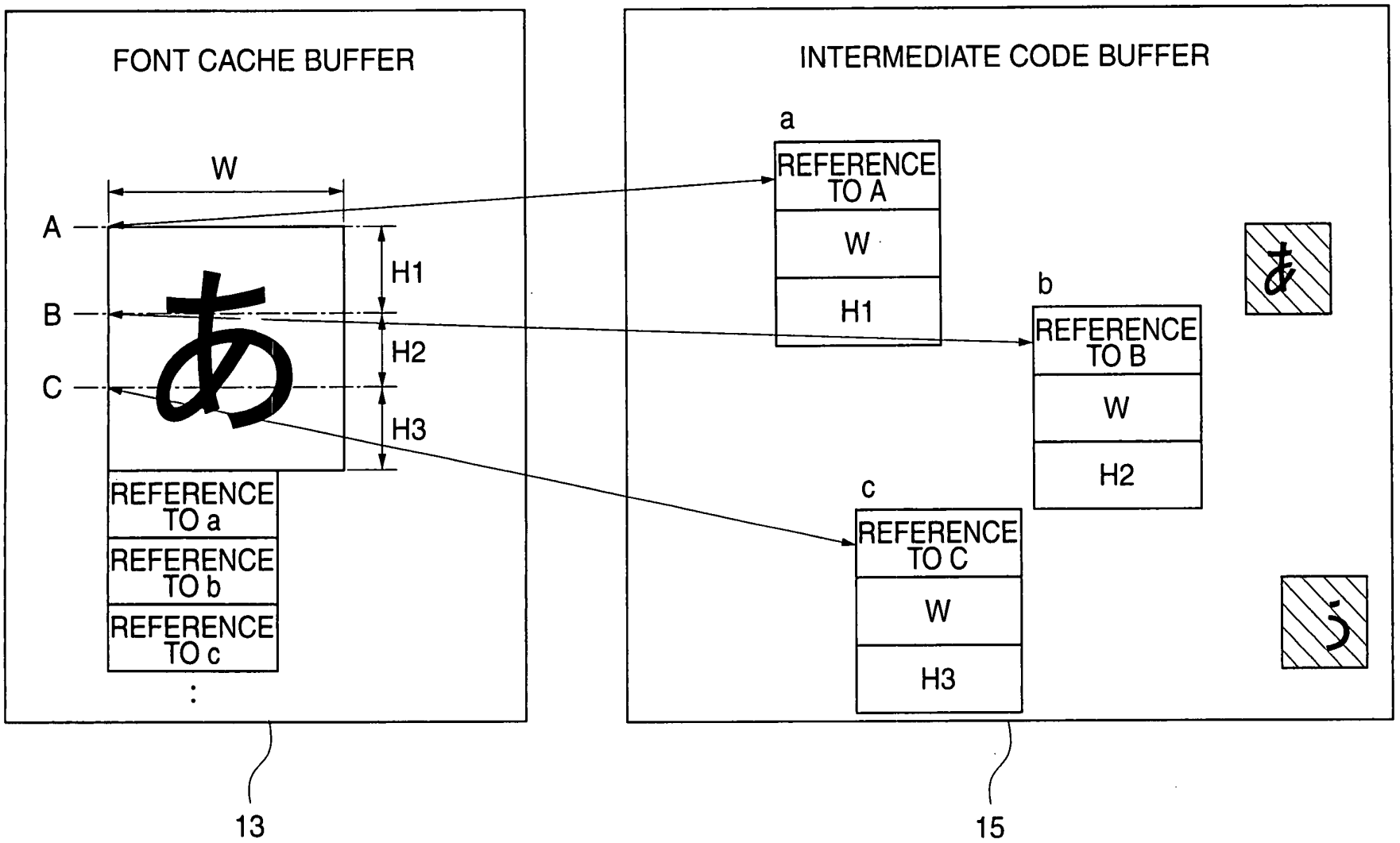
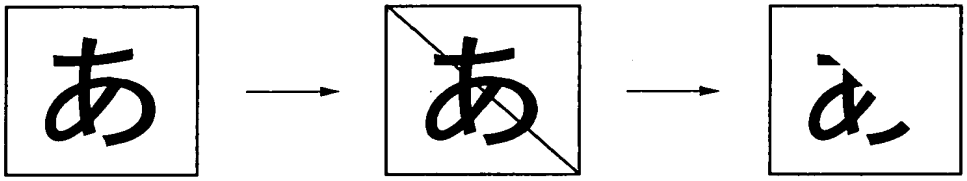

FONT CACHE BUFFER
W
A
B
C
H1
H2
H3
あ
REFERENCE TO a
REFERENCE TO b
REFERENCE TO c
13
INTERMEDIATE CODE BUFFER
a
REFERENCE TO A
W
H1
b
REFERENCE TO B
W
H2
c
REFERENCE TO C
W
H3
15

FIG.5A *FIG.5B* *FIG.5C*



0980500-070505D

FIG.6

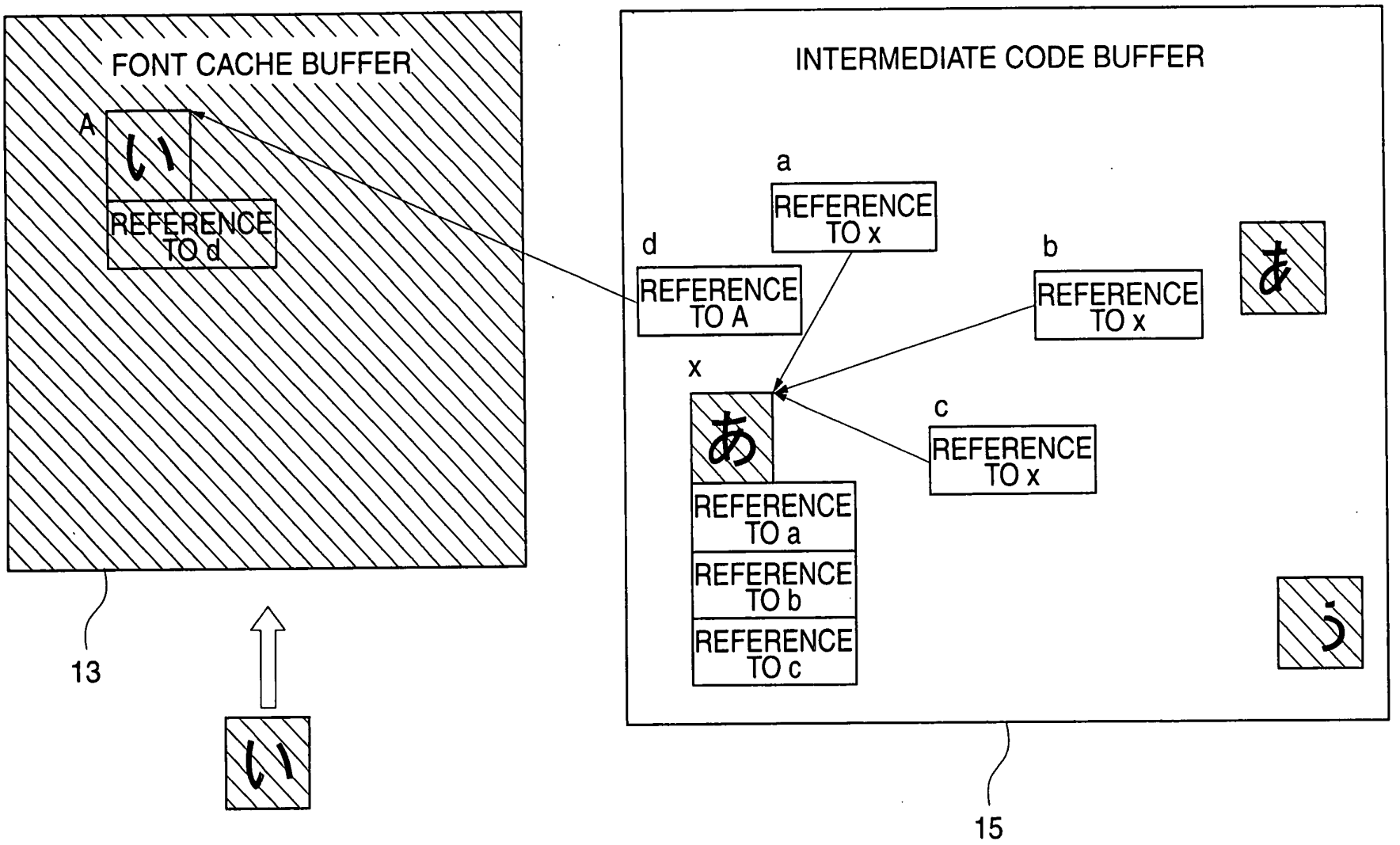

FONT CACHE BUFFER
A
REFERENCE TO d
13
INTERMEDIATE CODE BUFFER
a
REFERENCE TO x
d
REFERENCE TO A
b
REFERENCE TO x
x
c
REFERENCE TO x
REFERENCE TO a
REFERENCE TO b
REFERENCE TO c
15

FIG.7A

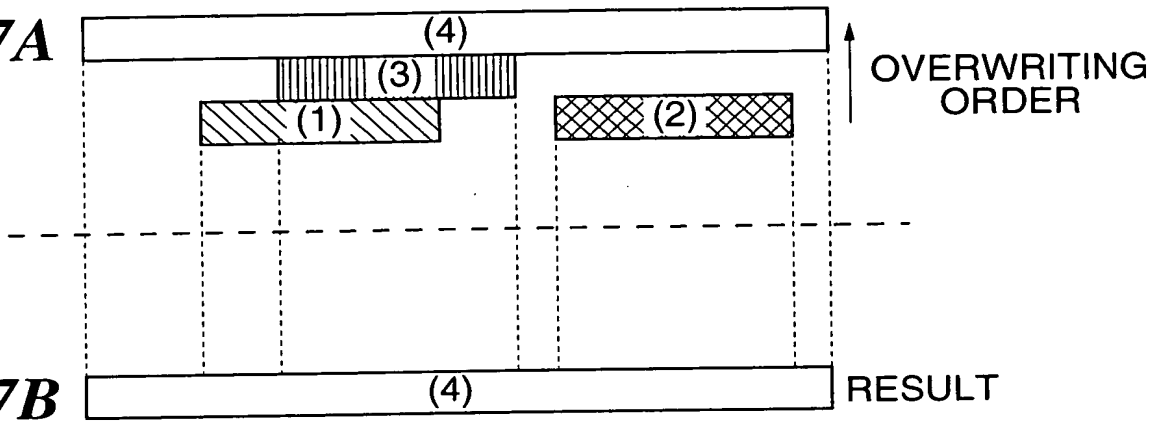
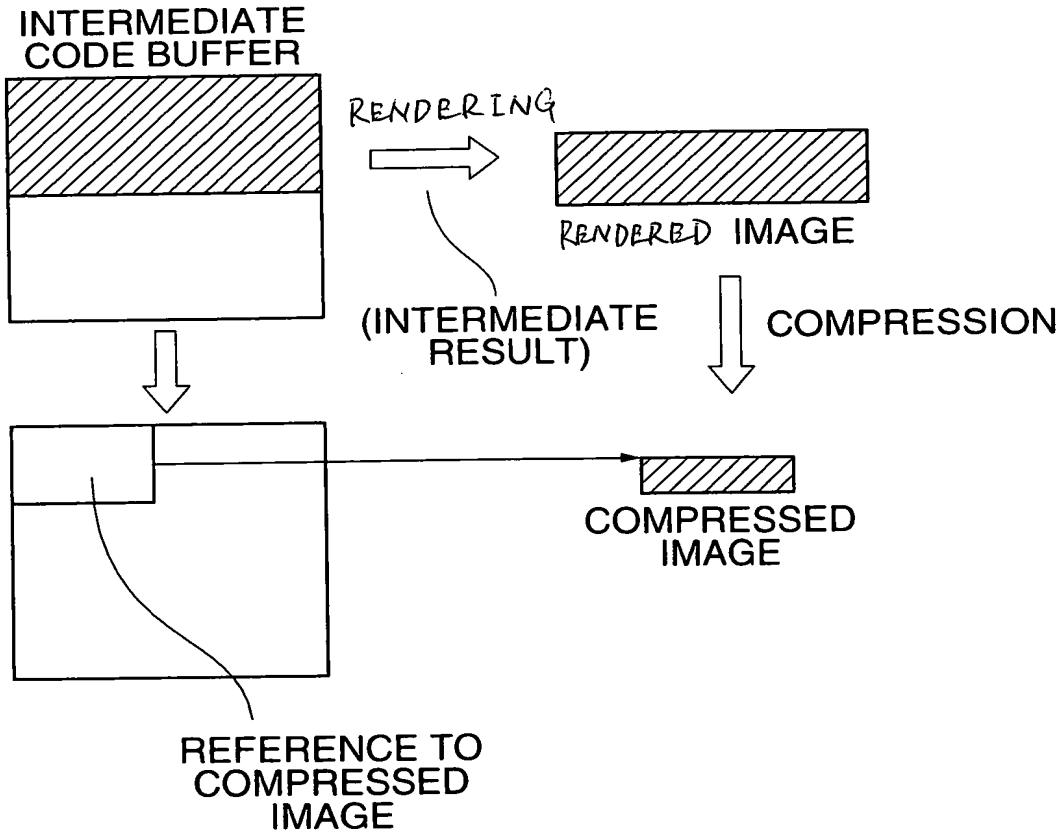


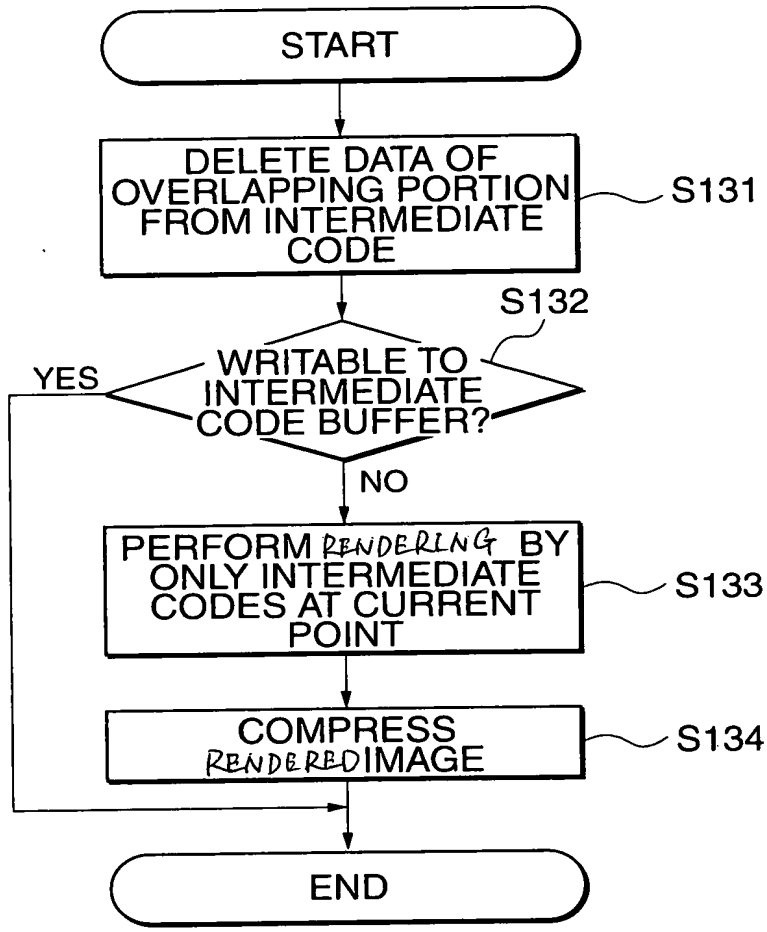
FIG.7B

FIG.8



0003800-0950700

FIG.9



0080 · 0830 · 0950 · 0960

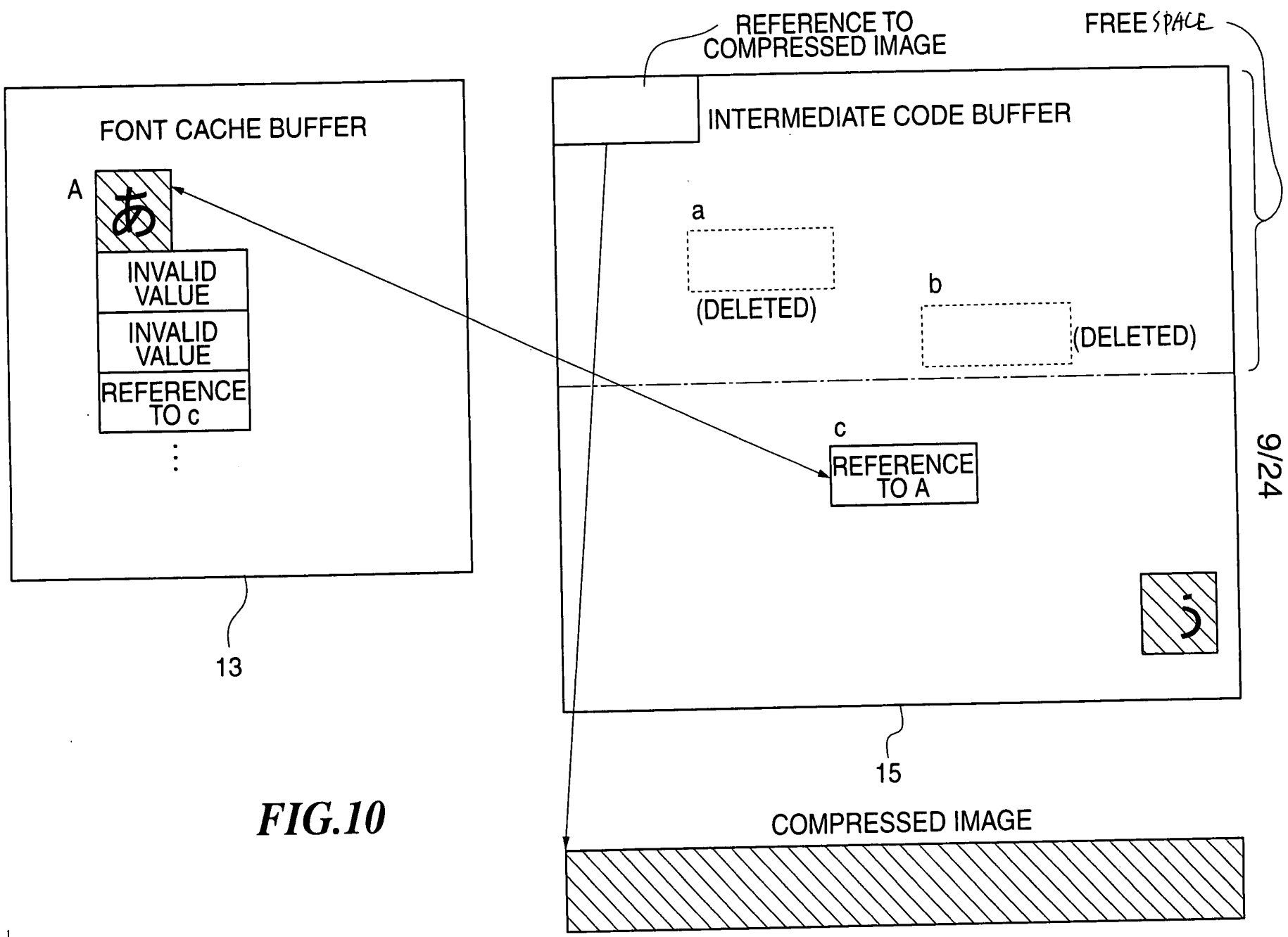

REFERENCE TO COMPRESSED IMAGE
FREE SPACE
FONT CACHE BUFFER
A
INVALID VALUE
INVALID VALUE
REFERENCE TO c
INTERMEDIATE CODE BUFFER
a
(DELETED)
b
(DELETED)
c
REFERENCE TO A
13
15
COMPRESSED IMAGE

FIG.10

FIG.11

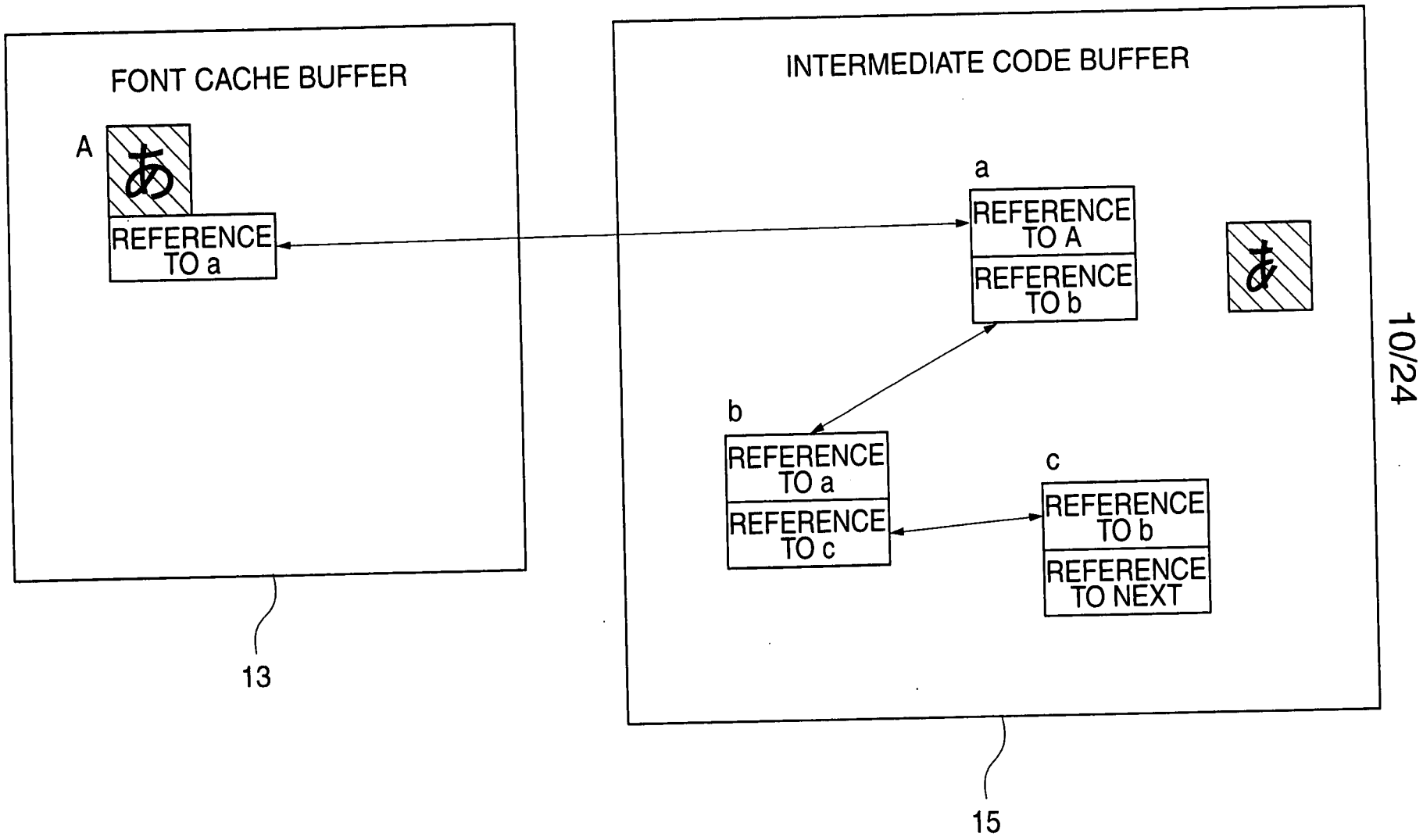
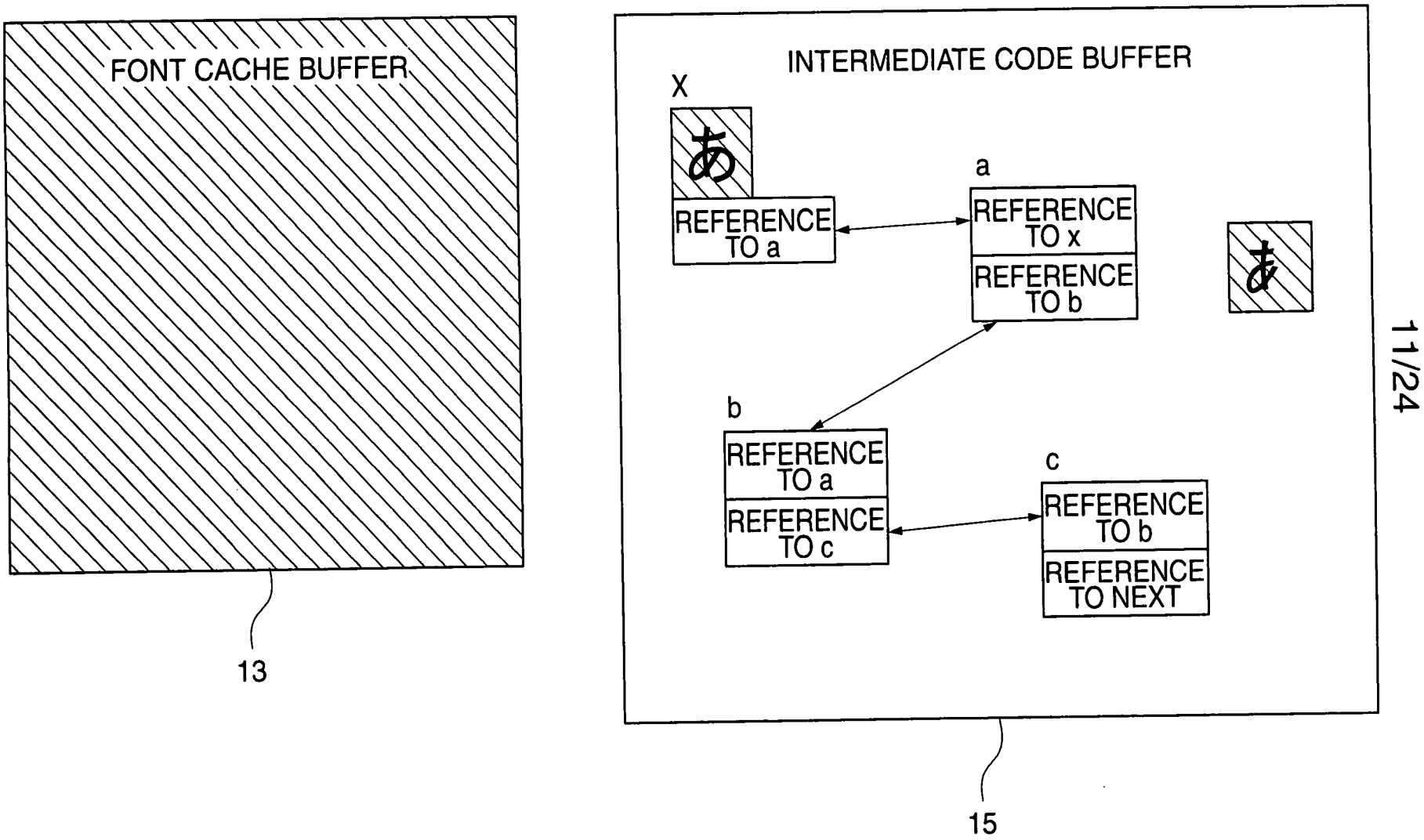

FONT CACHE BUFFER
A
あ
REFERENCE TO a
13
INTERMEDIATE CODE BUFFER
a
REFERENCE TO A
REFERENCE TO b
あ
b
REFERENCE TO a
REFERENCE TO c
c
REFERENCE TO b
REFERENCE TO NEXT
15

FIG.12


FONT CACHE BUFFER
13
INTERMEDIATE CODE BUFFER
X
あ
REFERENCE TO a
a
REFERENCE TO x
REFERENCE TO b
b
REFERENCE TO a
REFERENCE TO c
c
REFERENCE TO b
REFERENCE TO NEXT
15

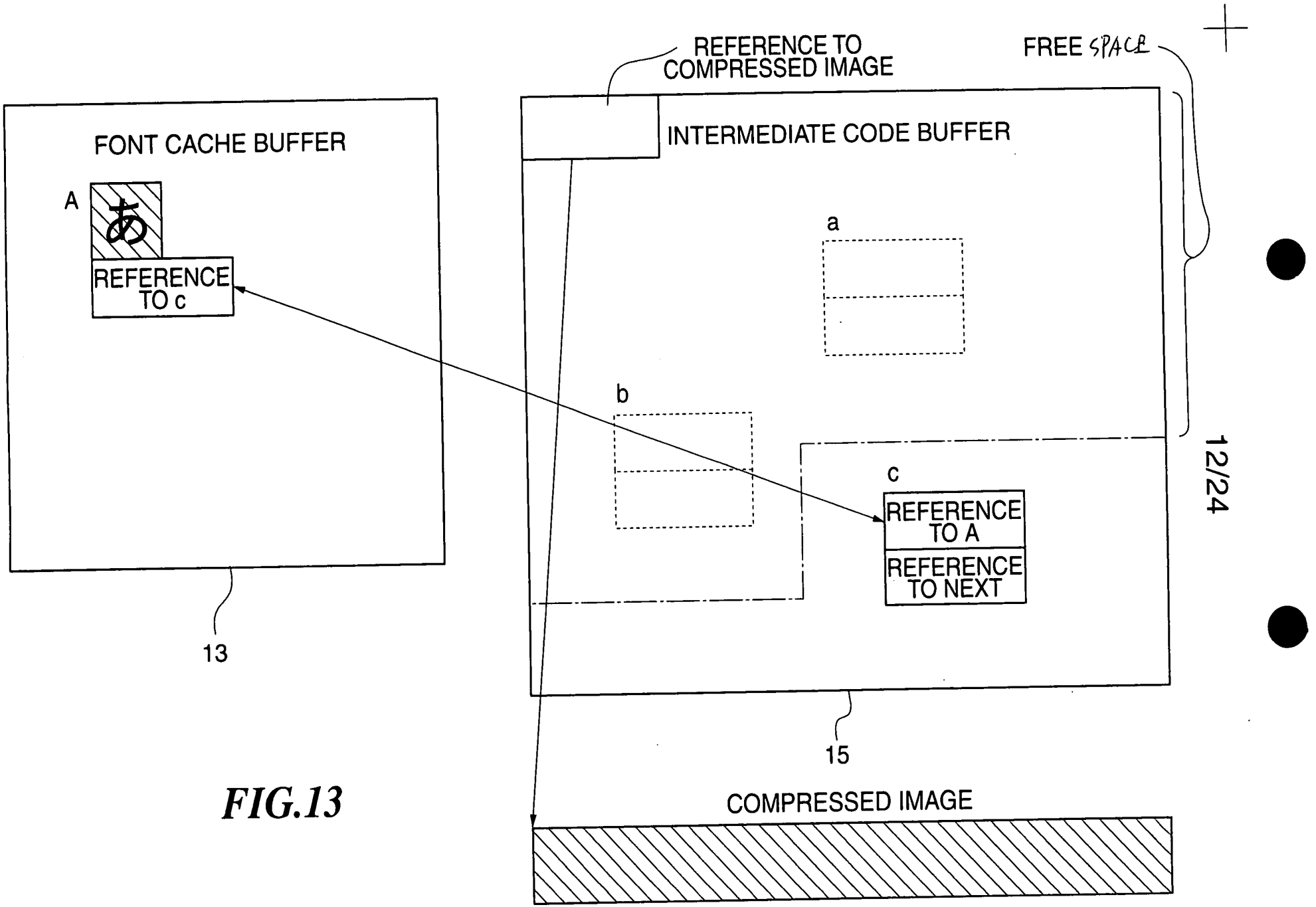

REFERENCE TO COMPRESSED IMAGE
FREE SPACE
FONT CACHE BUFFER
A
あ
REFERENCE TO c
INTERMEDIATE CODE BUFFER
a
b
c
REFERENCE TO A
REFERENCE TO NEXT
13
15
COMPRESSED IMAGE

FIG.13

0008"0290560

FIG.14

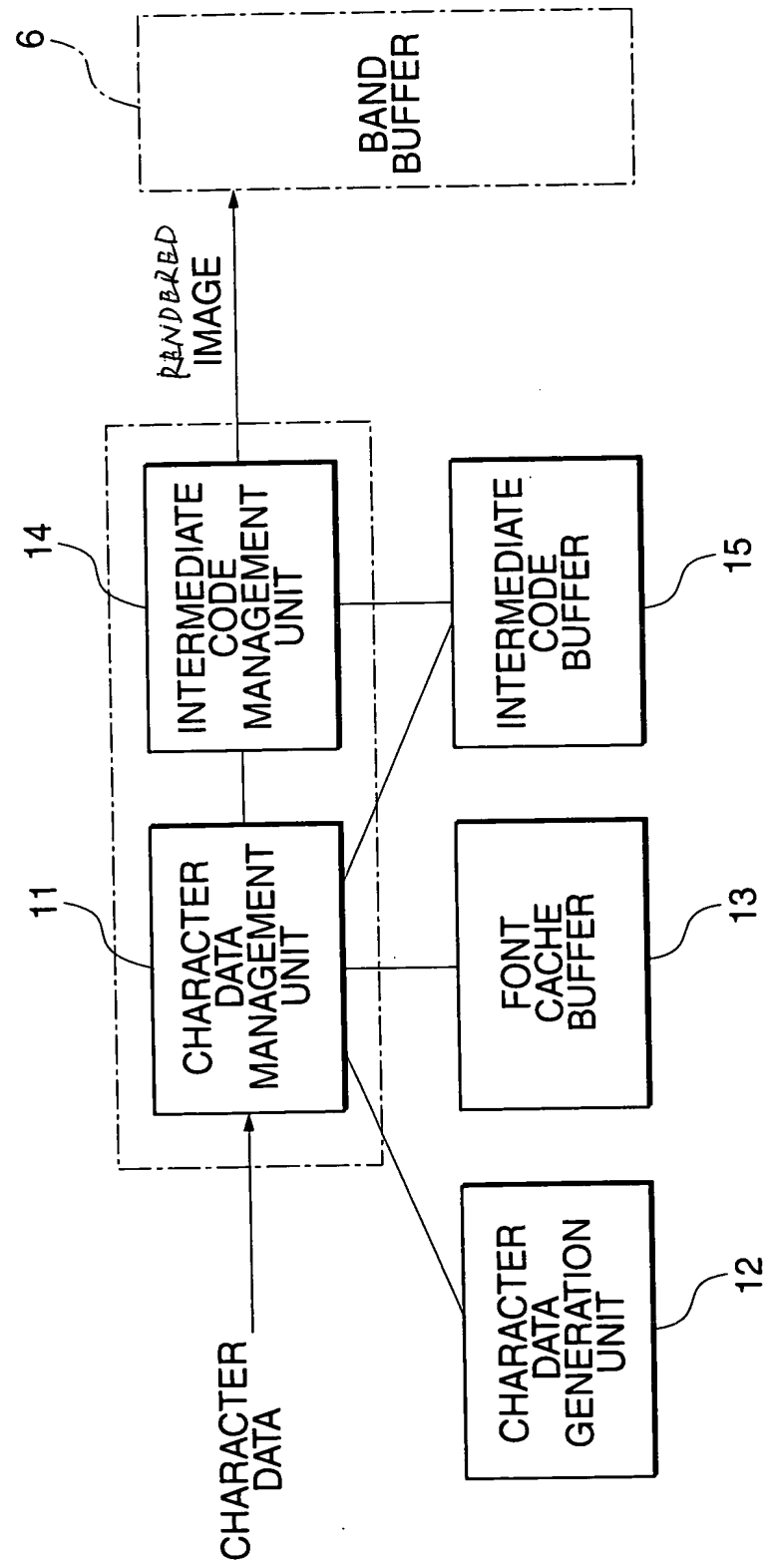
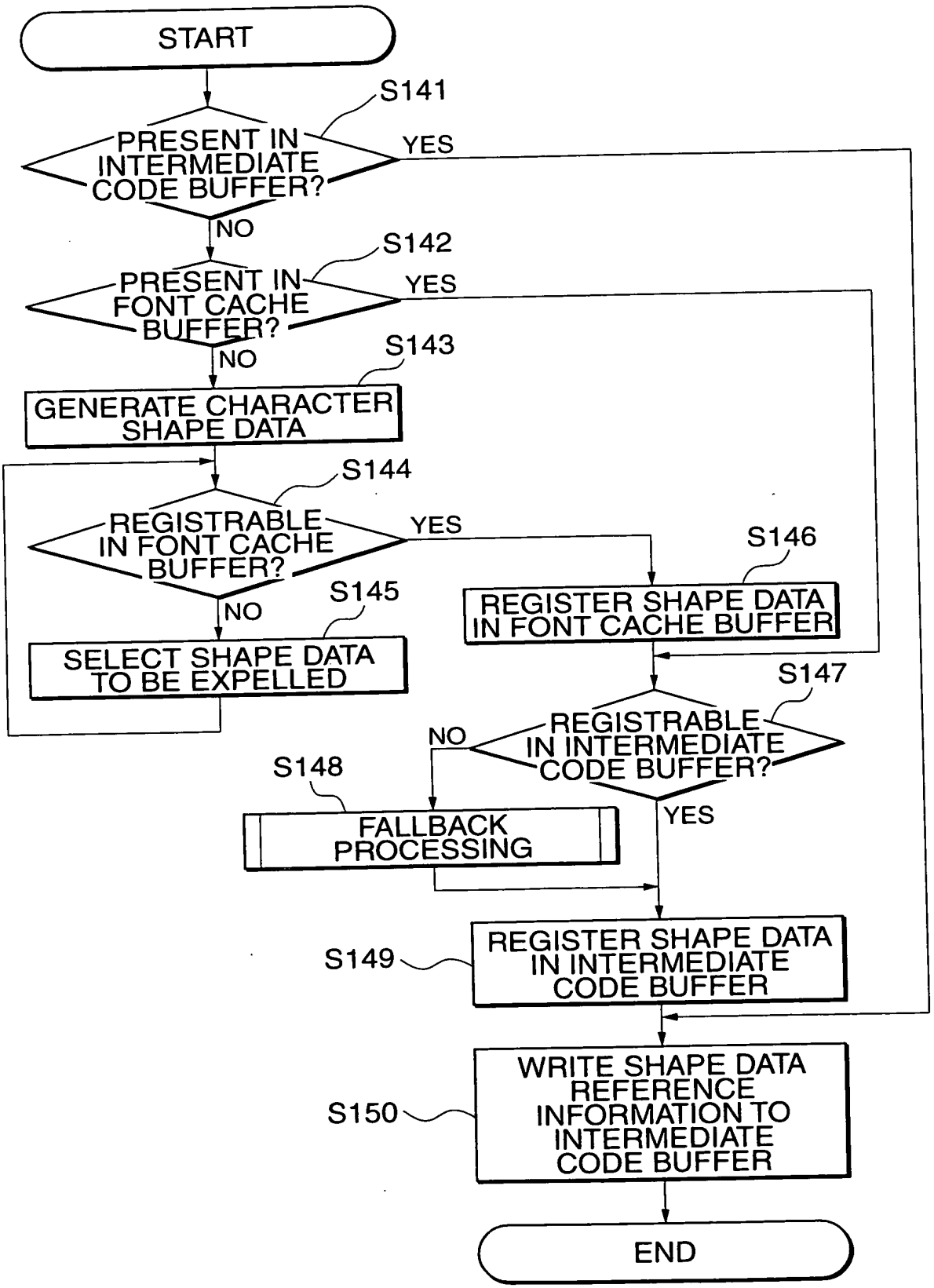


FIG.15



0050960 - 080300

FIG.16

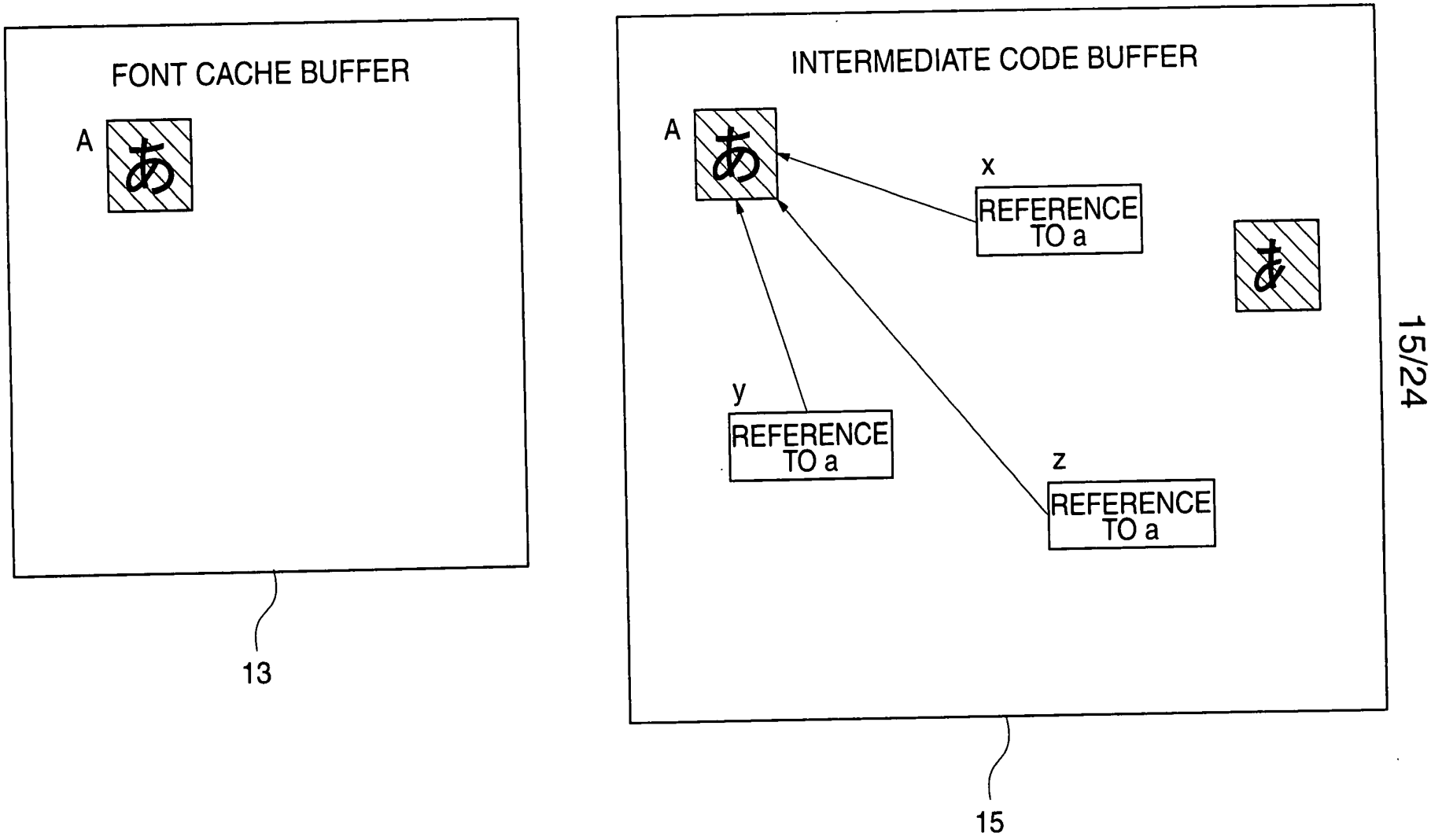
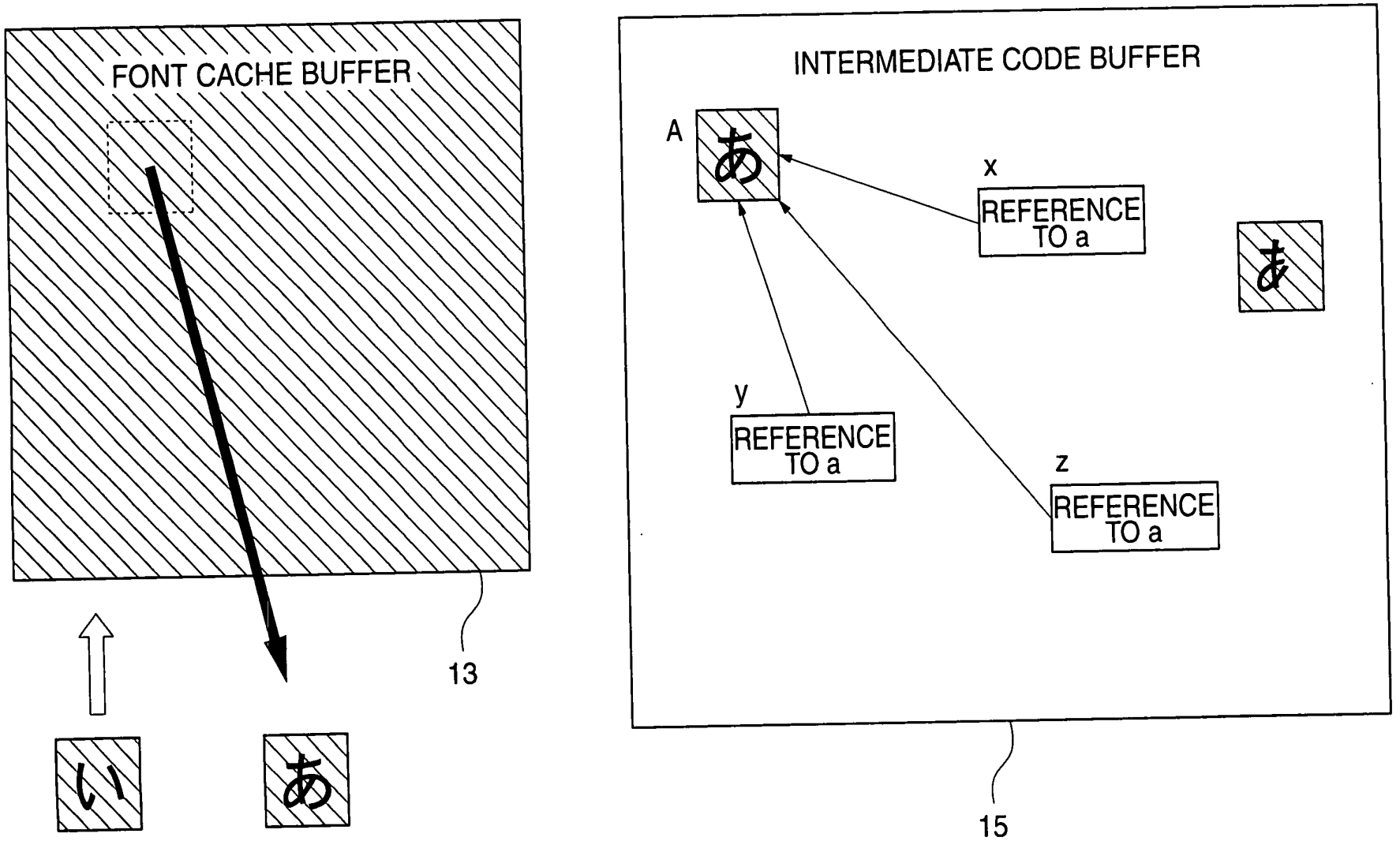
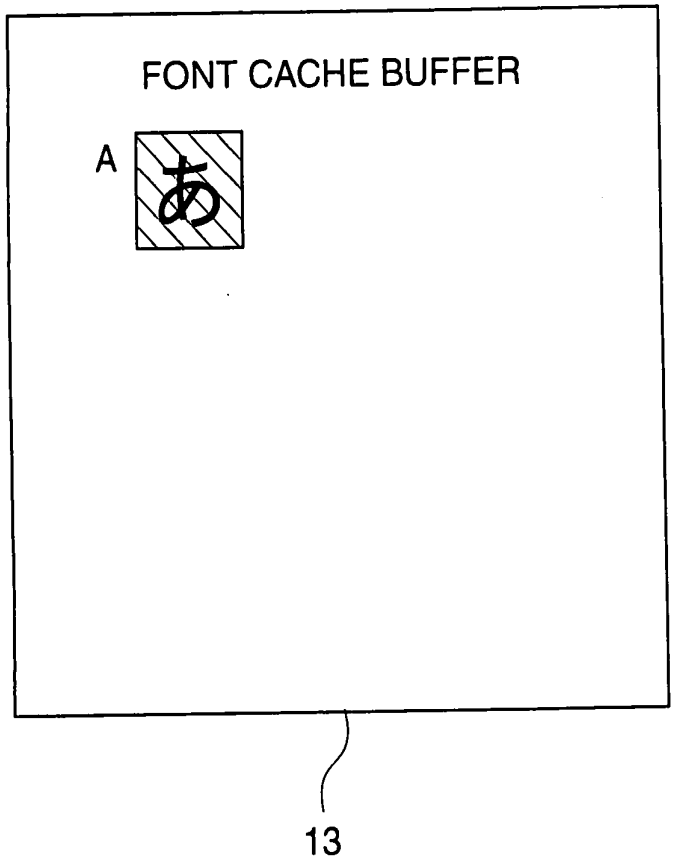

FONT CACHE BUFFER
A
あ
13
INTERMEDIATE CODE BUFFER
A
あ
x
REFERENCE TO a
あ
y
REFERENCE TO a
z
REFERENCE TO a
15

FIG.17


FONT CACHE BUFFER
13
い
あ
INTERMEDIATE CODE BUFFER
A
あ
x
REFERENCE TO a
y
REFERENCE TO a
z
REFERENCE TO a
15


FONT CACHE BUFFER
A
あ
13

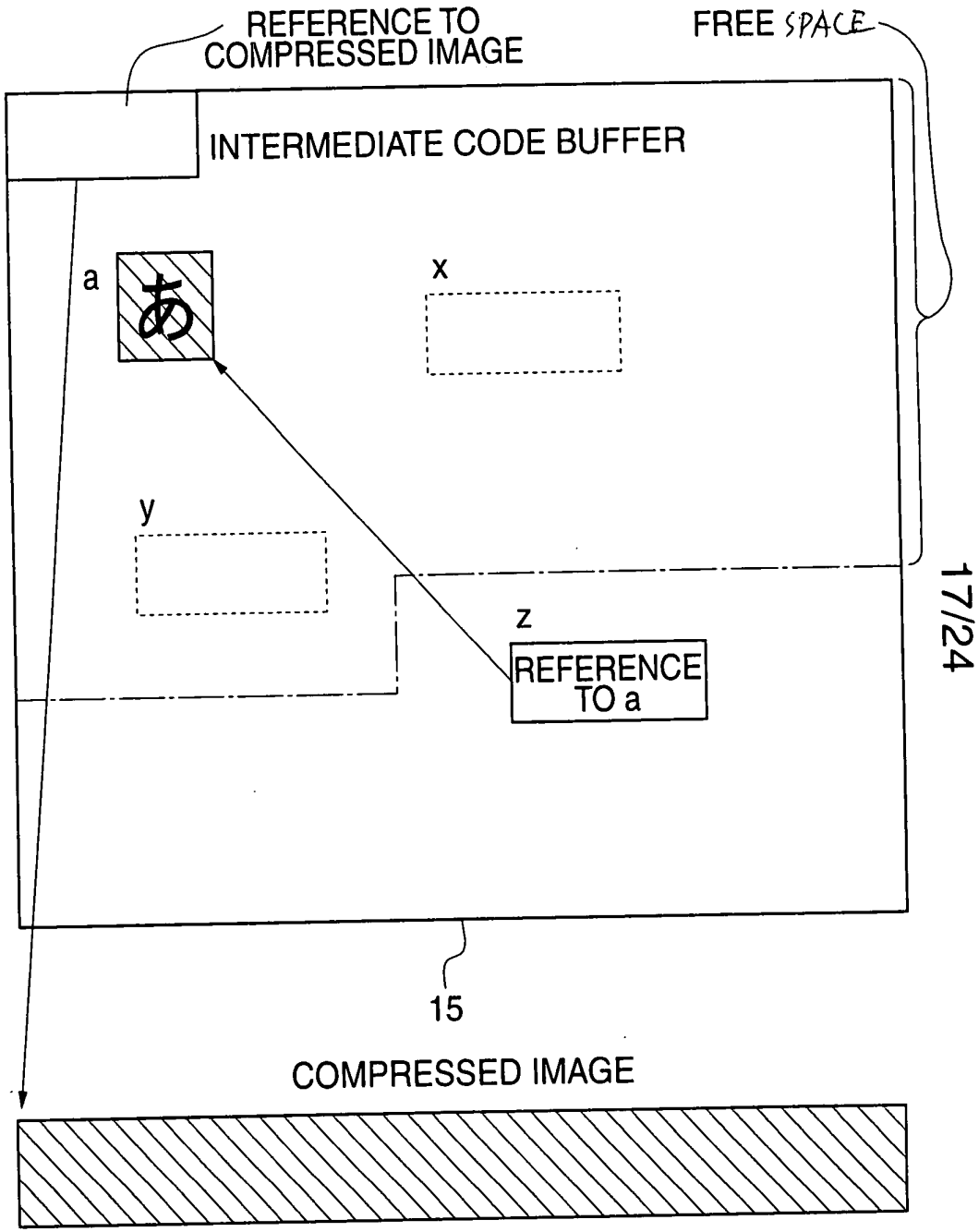
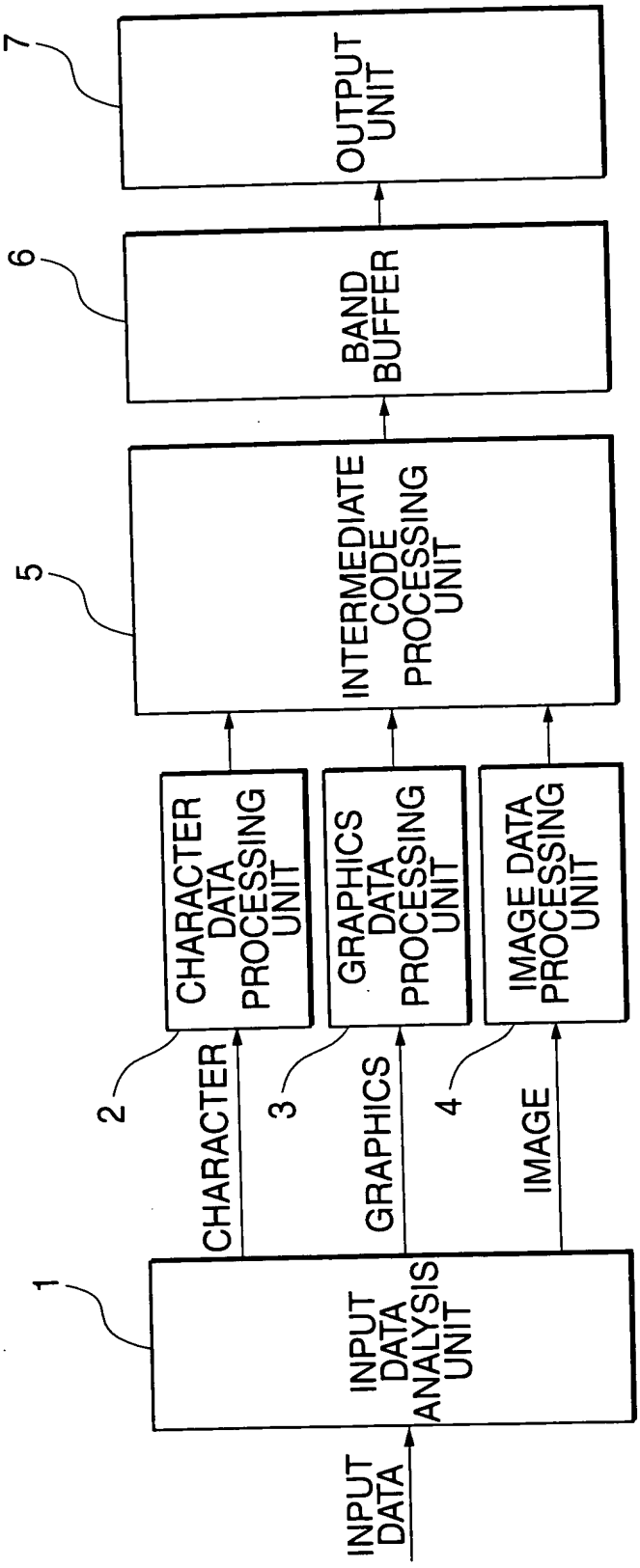

REFERENCE TO COMPRESSED IMAGE
FREE SPACE
INTERMEDIATE CODE BUFFER
a
あ
x
y
z
REFERENCE TO a
17/24
15
COMPRESSED IMAGE

FIG.18

0006360 "0795960

FIG.19



0006804 "0490560

FIG.20

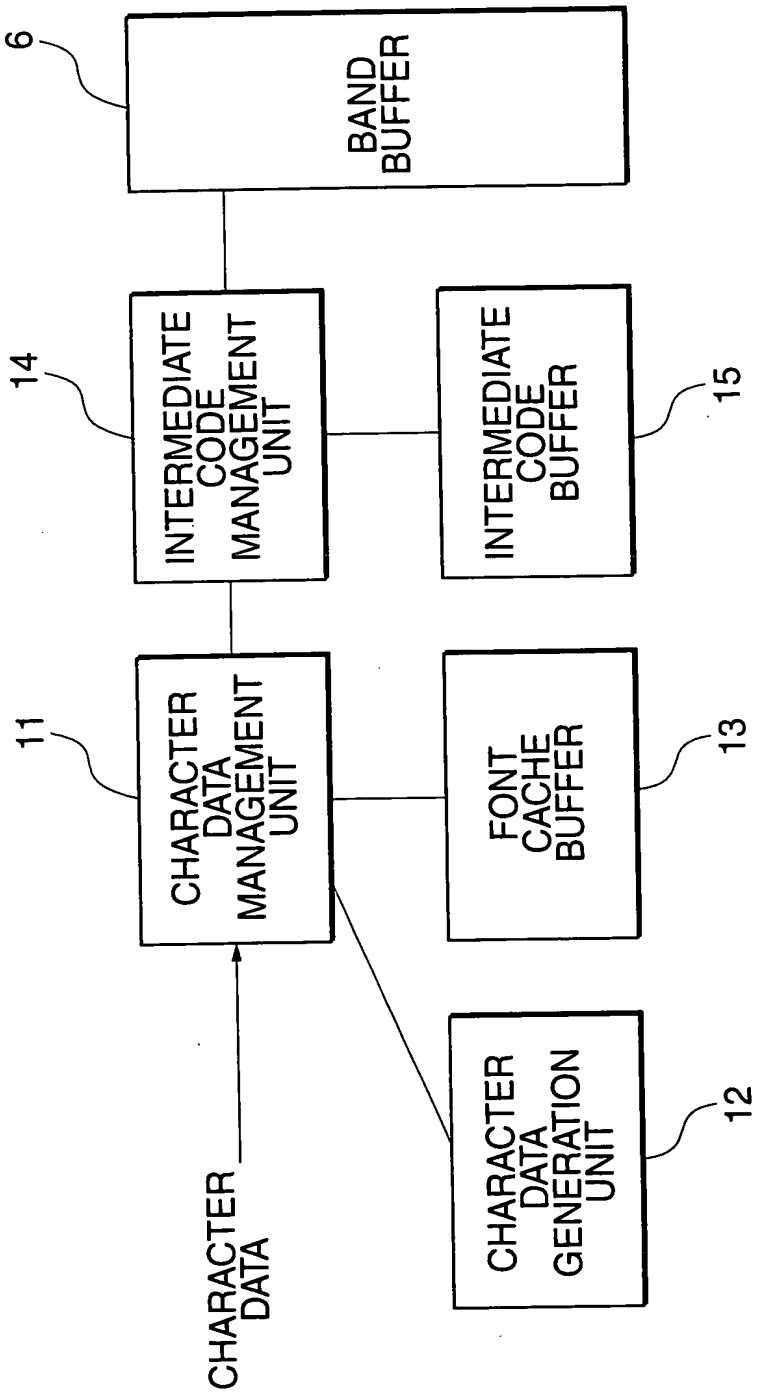


FIG.21

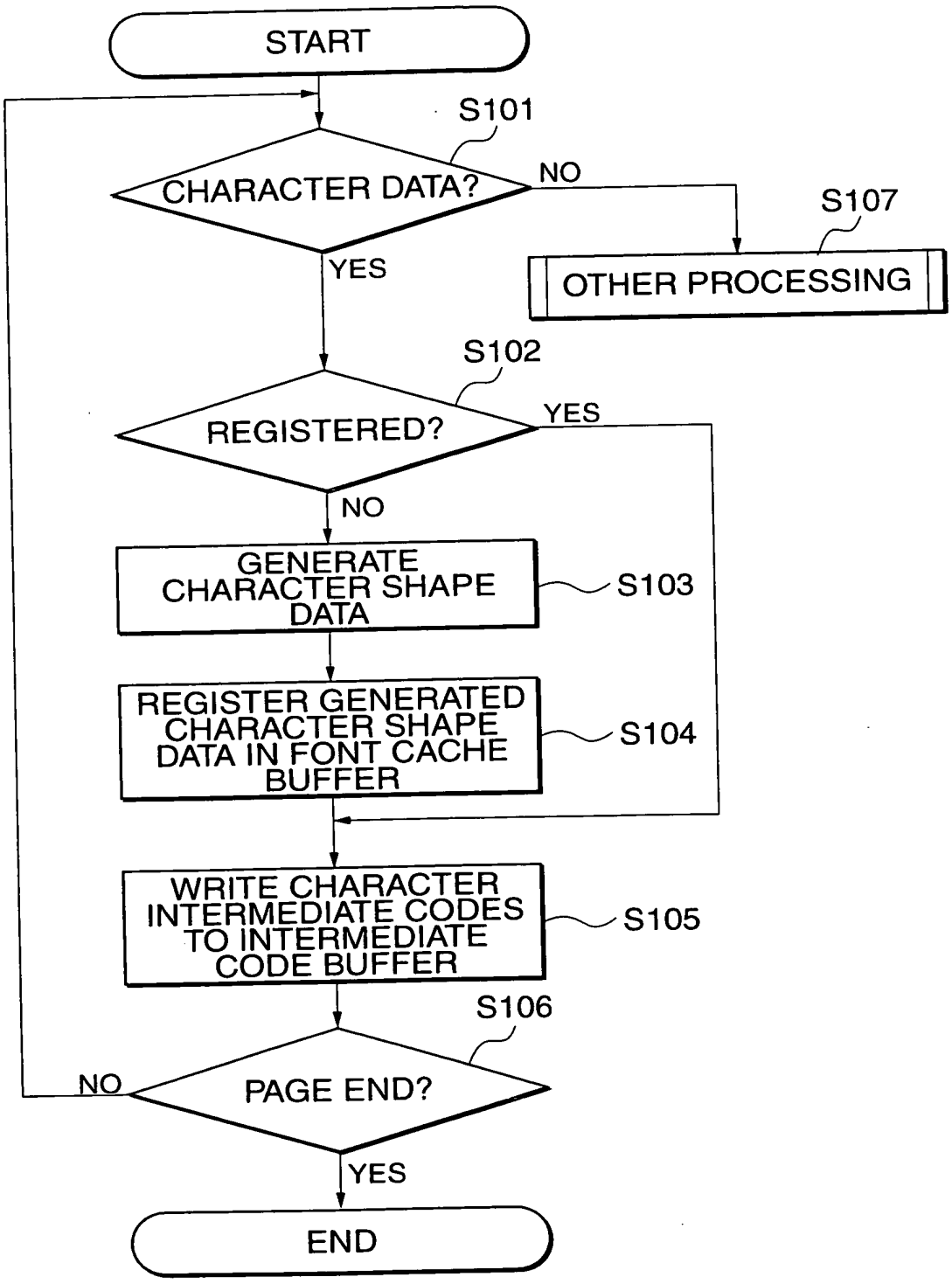

START
S101
CHARACTER DATA?
NO
S107
OTHER PROCESSING
YES
S102
REGISTERED?
YES
NO
GENERATE CHARACTER SHAPE DATA
S103
REGISTER GENERATED CHARACTER SHAPE DATA IN FONT CACHE BUFFER
S104
WRITE CHARACTER INTERMEDIATE CODES TO INTERMEDIATE CODE BUFFER
S105
S106
NO
PAGE END?
YES
END

FIG.22

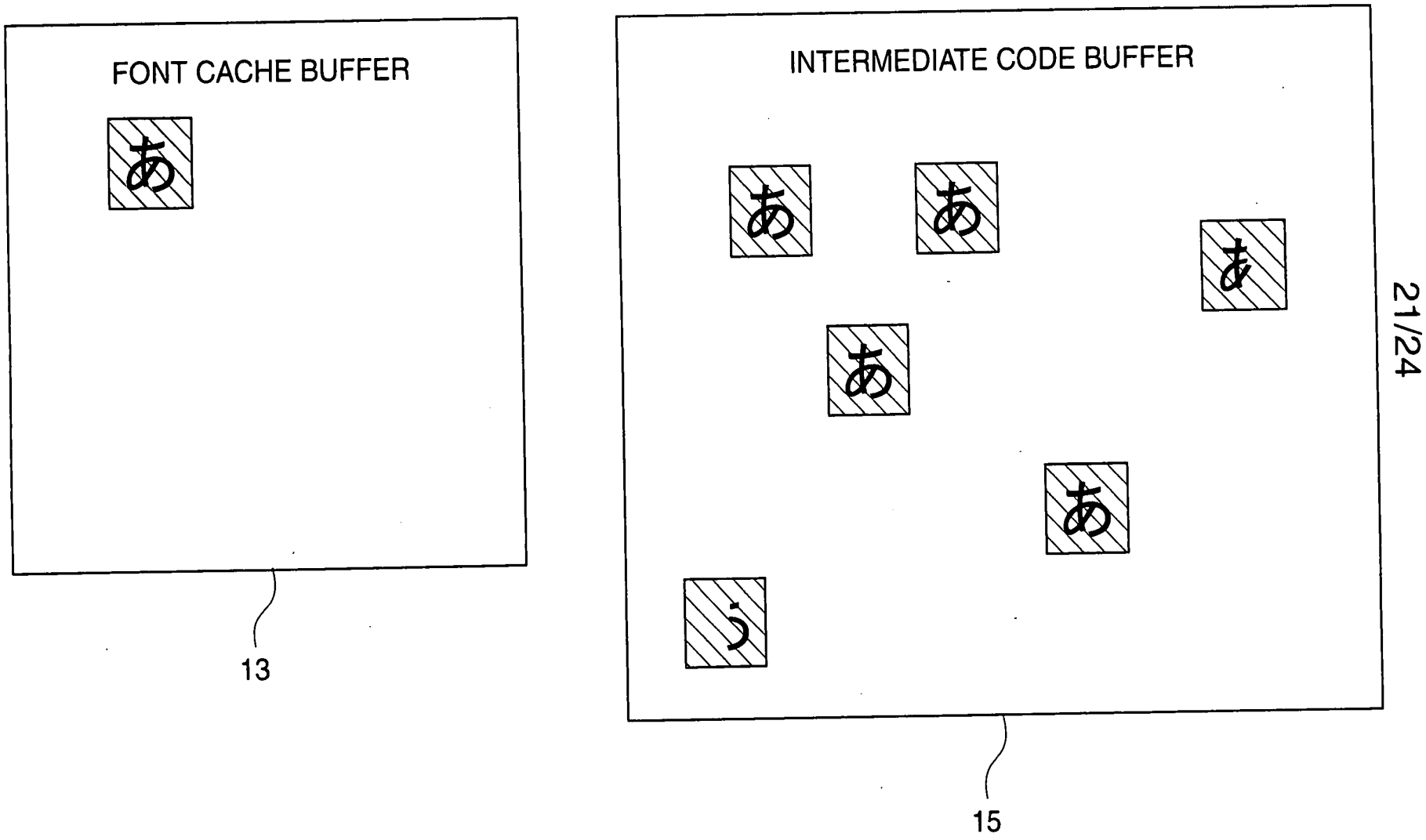
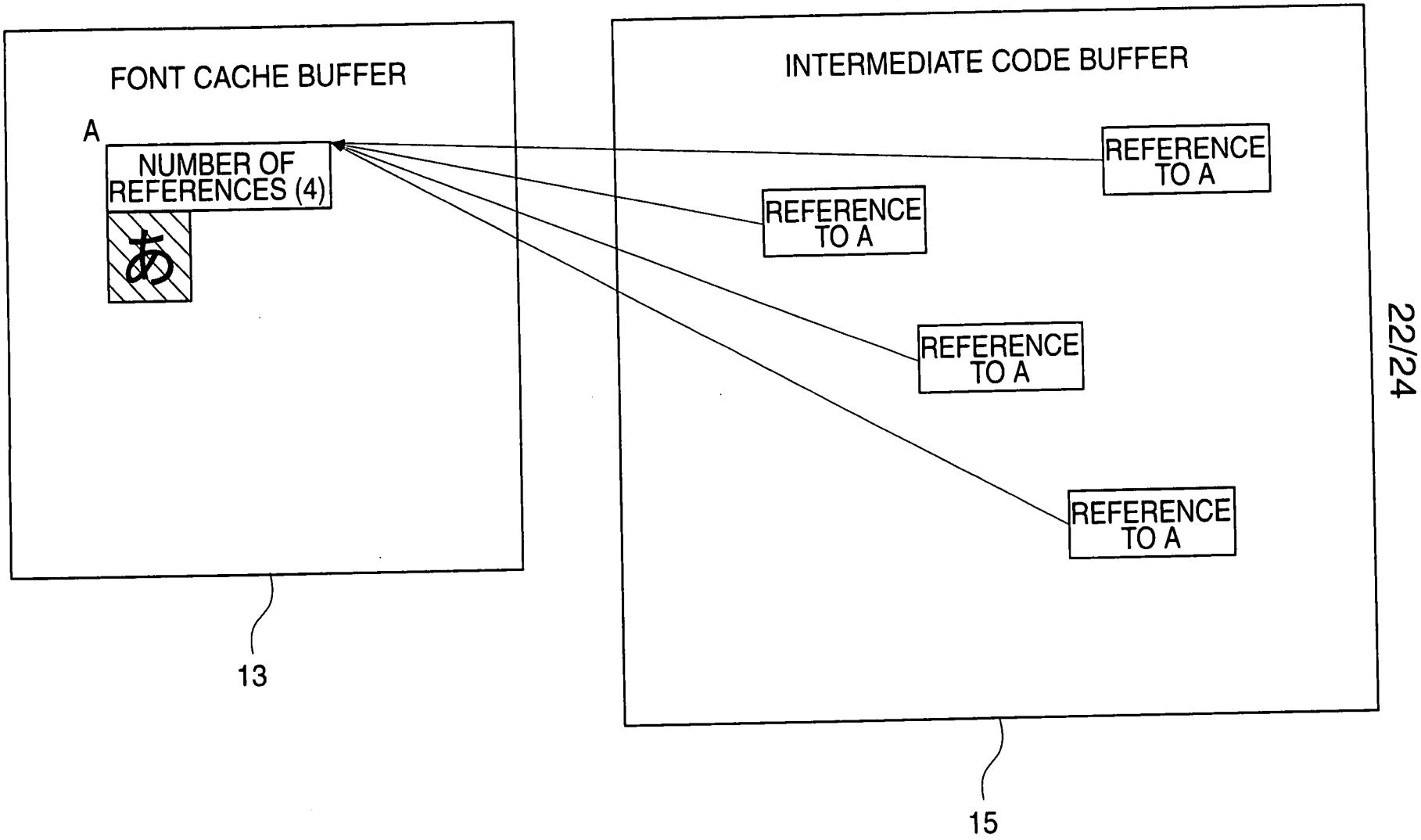


FIG.23


FONT CACHE BUFFER
A
NUMBER OF REFERENCES (4)
あ
13
INTERMEDIATE CODE BUFFER
REFERENCE TO A
REFERENCE TO A
REFERENCE TO A
REFERENCE TO A
15

0008807905960

FIG.24

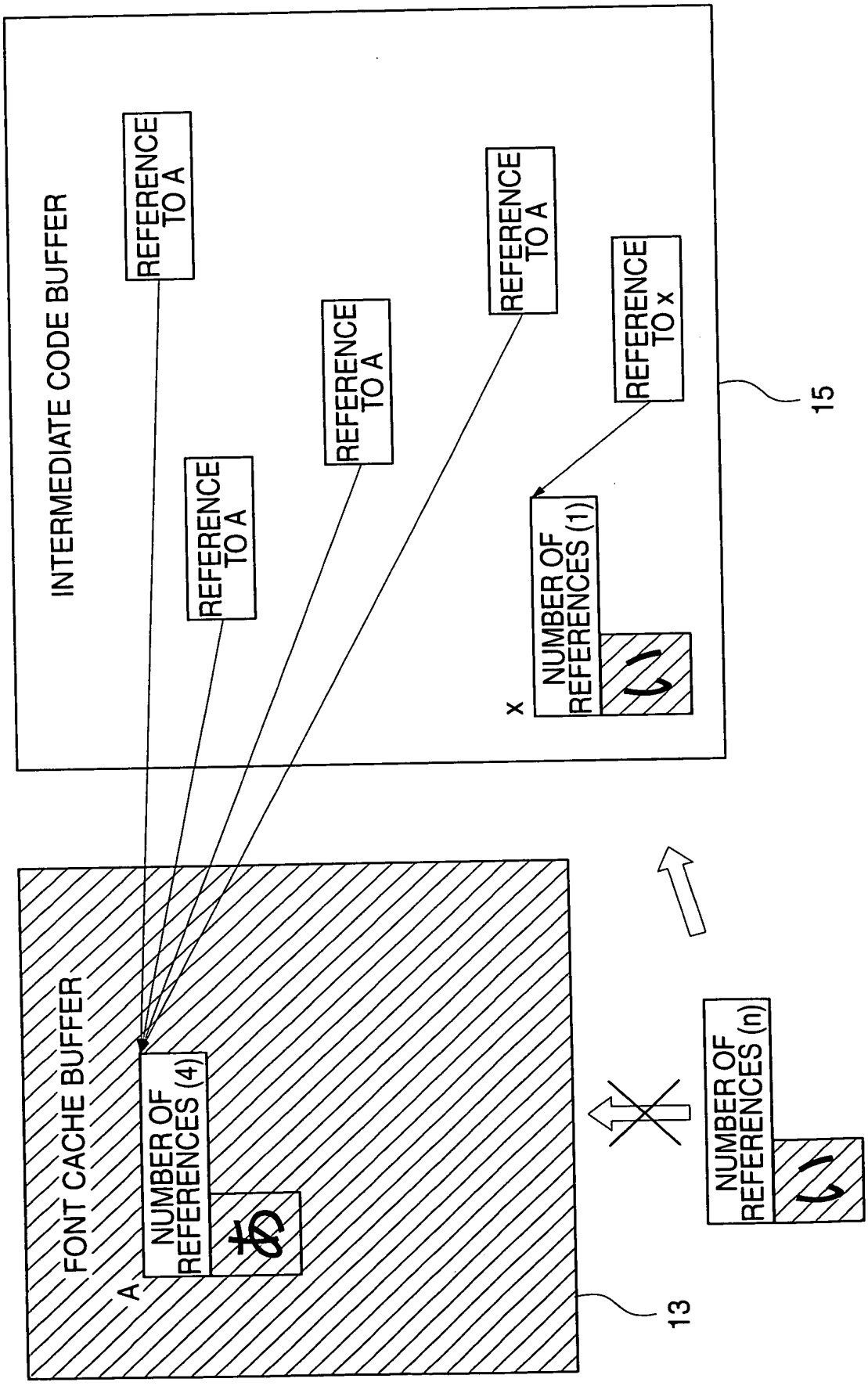
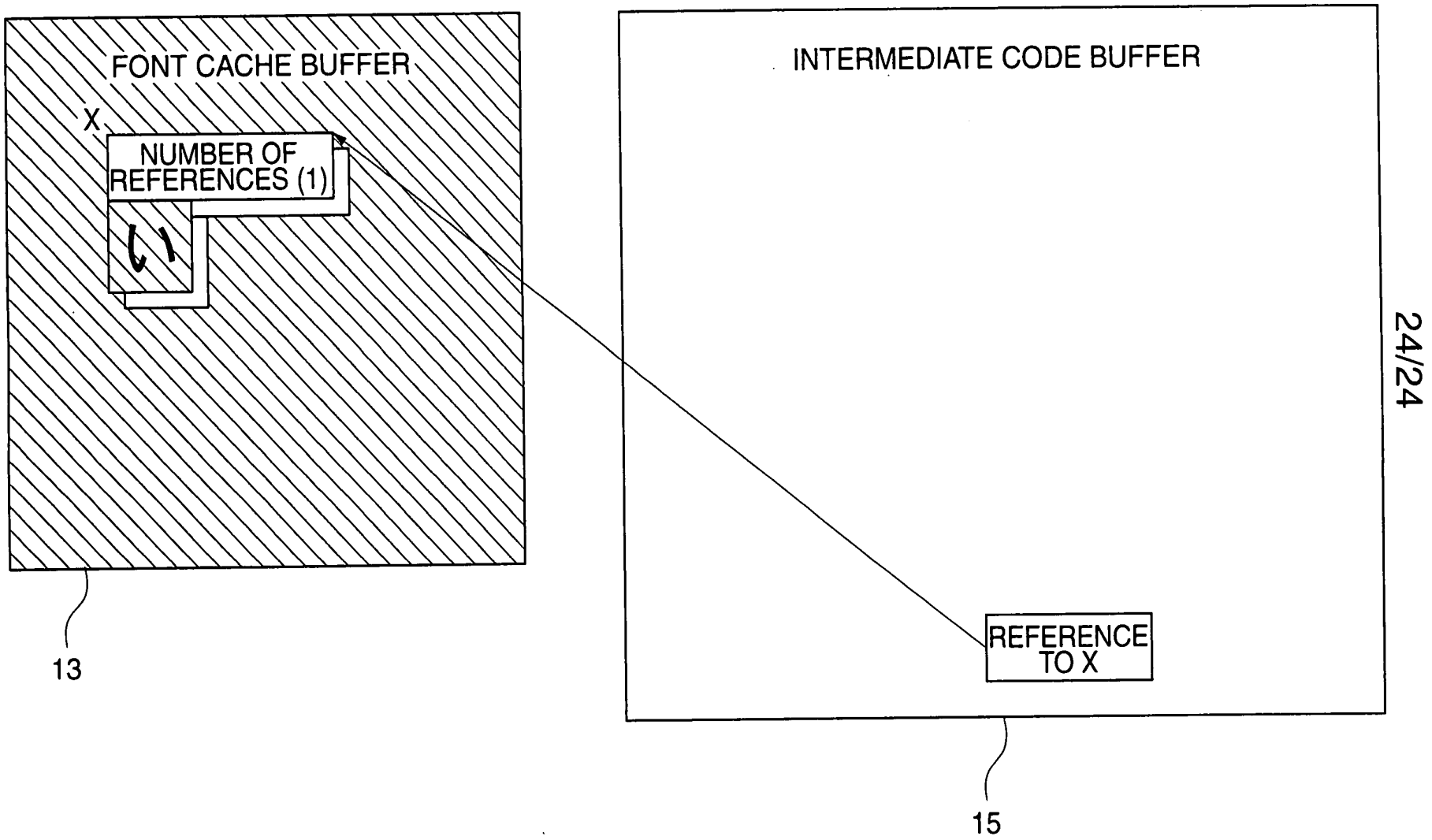


FIG.25


FONT CACHE BUFFER
X
NUMBER OF REFERENCES (1)
1
13
INTERMEDIATE CODE BUFFER
REFERENCE TO X
15